



**NOTICE**

This documentation has been reviewed by the Technical Authority and does not contain controlled goods.

**AVIS**

Cette documentation a été révisée par l'Autorité technique et ne contient pas de marchandises contrôlées.

**ANNEX B**

**PURCHASE DESCRIPTION**  
**TRAILER, SEALANT MELTING KETTLE**

**1. SCOPE**

1.1 **Scope** - This purchase description covers the requirements for a Sealant Melting Kettle trailer.

1.2 **Instructions**

- (a) Requirements, which are identified by the word "**must**", **must** be treated as mandatory. Deviations will not be permitted;
- (b) Requirements identified with a "will" define actions to be performed by Canada and require no action/obligation on the Contractor's part;
- (c) Where "**must**" or "will" are not used, the information provided is for guidance only;
- (d) Where a standard is specified and the Contractor has offered an **Equivalent**, that **Equivalent** standard **must** be supplied by the Contractor;
- (e) Where a technical certification is referred to in this Purchase Description, a copy of the certification or an acceptable Proof of Compliance **must** be supplied, when requested by the **Technical Authority**;
- (f) While the International System of Units (SI) **must** be used as the primary system of measurement to define requirements of this Purchase Description, both the SI system and the standard system for this product may be indicated. Conversion from one system of measurement to the other may not be exact; and
- (g) Dimensions stated as nominal **must** be treated as approximate dimensions. Nominal dimensions reflect a method by which materials or products are generally identified for sale commercially, but which differ from the actual dimensions.

1.3 **Definitions**

- (a) "**Provided**" means "provided and installed";
- (b) "**Technical Authority**" **must** mean the official responsible for the technical content of this requirement;

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- (c) **"Equivalent"** means a standard, means, or component type, which the **Technical Authority** has approved for this requirement as meeting the specified requirements for fit, form, function and performance;
- (d) **"Commercially Equipped"** means that the vehicle is provided in its standard commercial configuration with no additional government-specified requirements;
- (e) **"Bilingual"** means in both official languages; English and French;
- (f) **"Road legal"** means the vehicle can be legally operated on all Canadian highways and secondary roads, without restrictions or special permits;
- (g) **"Payload"** means the maximum cargo load carrying capacity of the equipment;
- (h) **"Gross Vehicle Weight Rating"** (GVWR) means manufacturer-specified recommended maximum weight of a vehicle/trailer when fully loaded; and
- (i) **"Gross Axle Weight Rating"** (GAWR) means the gross axle weight rating, which is the maximum axle load allowed by the manufacturer for this application.

1.4 **Data Table** - The following table shows required performance and dimensions for each configuration, with a clause reference.

CHARACTERISTIC	CLAUSE	UNITS	VALUE
CAPACITY	3.4 (c)	liter	1375

## 2. APPLICABLE DOCUMENTS

### 2.1 Government Furnished Documents - NOT APPLICABLE

2.2 Other Publications - The following documents are referenced in this specification. Canada will not be supplying reference documents. Available information on the organization is provided.

- (a) Hazardous Products Act  
Government of Canada / Department of Justice  
<http://laws-lois.justice.gc.ca/eng/acts/H-3/>
- (b) International Organization for Standardization (ISO)  
ISO Central Secretariat  
1, ch. de la Voie-Creuse  
CP 56, CH-1211 Geneva 20  
Switzerland  
<http://www.iso.org/iso/home.htm>
- (c) SAE Standards  
SAE World Headquarters  
400 Commonwealth Dr.,  
Warrendale, PA, 15096-0001  
<http://www.sae.org>
- (d) Canada Motor Vehicle Safety Act (CMVSA)  
Government of Canada / Transport Canada  
<http://www.tc.gc.ca/eng/acts-regulations/acts-1993c16.htm>

## 3. REQUIREMENTS

### 3.1 Standard Design

- (a) The trailer **must** be the latest model from a manufacturer who has demonstrated acceptability by selling, in North America, this type and size class of vehicle for at least three (3) years;
- (b) The trailer **must** have engineering certification available, upon request for this application from the original manufacturers of major equipment, systems and assemblies;
- (c) The trailer **must** conform to all applicable laws, regulations and industrial standards governing manufacture, safety, noise levels and pollution in effect in Canada at the time of manufacture; and
- (d) The trailer **must** not have systems and components operating at capacities beyond those published by the system or component manufacturer.

3.2 **Operating Conditions**

- 3.2.1 **Terrain** - The vehicle/equipment **must** operate on highways, secondary roads, gravel roads, off-road, and cross-country conditions (e.g. dirt tracks and rough logging roads). Terrain conditions **must** include year round operations on snow, mud, sand and ice.

3.3 **Safety Standards**

- 3.3.1 **Vehicle Safety Regulations** - The trailer **must** meet the provisions of the Canada Motor Vehicle Safety Act.

- 3.3.2 **Hazardous Materials** - The contractor **must** comply with the Hazardous Products Act of Canada with regards to the use of hazardous materials, ozone depleting substances, polychlorinated biphenyls, asbestos and heavy metals used in the manufacture and assembly of the product supplied.

3.4 **Performance**

- (a) The equipment **must** be a diesel-fired sealant melting kettle trailer;
- (b) The melting kettle trailer **must** melt and dispense rubberized asphalt crack sealer;
- (c) The melting chamber **must** have a capacity of at least that given as "CAPACITY" in the Data Table (paragraph 1.4); and
- (d) The melting kettle trailer **must** bring the sealant product from ambient to application temperature in no more than one hour.

3.5 **Trailer Performance**

- (a) The trailer **must** tow a full load on highways and secondary roads at speeds of up to at least 110 km/h;
- (b) Trailers **must** tow a full load on gravel roads at speeds of up to at least 40 km/h; and
- (c) The trailer **must** tow a full load cross-country at speeds of up to at least 10 km/h.

3.5.2 **Towing Ability**

- (a) The trailer **must** follow the towing vehicle without weaving or side sway; and
- (b) The trailer **must** articulate horizontally up to 60 degrees without interference with the towing vehicle.

3.6

**Equipment**

- (a) **Dispensing Valve** - The trailer **must** be provided with material dispensing valve located at the rear of the trailer.
- (b) **Drawbar** - The trailer **must** be provided with a drawbar that can carry at least 15 per cent of trailer gross weight.
- (c) **Lunette**
  - i The trailer **must** be provided with a fixed lunette; and
  - ii The lunette **must** have a nominal inside diameter 76 mm in accordance with SAE J847.
- (d) **Standard Lunette Mounting Plate**
  - i The equipment **must** be provided with a lunette mounting plate;
  - ii The lunette mounting plate **must** allow the lunette to be mounted with nominal heights from 400 to 700 mm; and
  - iii The mounting heights for the lunette **must** have increments of no greater than 50 mm.
- (e) **Safety Chains**
  - i The trailer **must** be provided with two (2) safety chains with snap hooks; and
  - ii The safety chains **must** be in accordance with SAE Recommended Practice J697.
- (f) **Landing Gear**
  - i The trailer **must** be provided with landing gear having a positively locked travel position; and
  - ii The landing gear **must** lift a fully loaded trailer at least 200 mm from horizontal.
- (g) **License Plate Holder**
  - i The trailer **must** be provided with a rear license plate holder; and
  - ii The rear license plate **must** be illuminated with LED lights.

3.7 **Axles** - The trailer axles **must** be commercially equipped.

3.8 **Fenders** - The trailer **must** be provided with wheel fenders.

3.9 **Brake System**

- (a) The trailer **must** be provided with electric brakes;
- (b) The brakes **must** be connected to power from the towing vehicle through the trailer receptacle; and
- (c) The brake system **must** be provided with breakaway safety system equipped with a coiled breakaway cable.

3.10 **Wheels and Tires**

- (a) All wheels **must** be provided with tires with a mud and snow tread; and
- (b) The wheel assemblies **must** have a capacity equal or greater than the load applied, at the top trailer speed (paragraph 3.5 (a)).

3.11 **Electrical System**

- (a) The equipment **must** operate with a towing vehicle having a 12-volt negative ground electrical system;
- (b) The electrical system **must** be provided with a positive engaging, 7-pin trailer receptacle;
- (c) The towing vehicle **must** provide all power and control for the trailer lighting;
- (d) Wiring **must** be protected by grommets when passing through metal; and
- (e) The wiring **must** be protected by assembly in woven fabric looms that are waterproof. Split hose looms will not be accepted.

3.12 **Lighting**

- (a) The trailer **must** have lights and reflectors in accordance with CMVSA;
- (b) Lights **must** be recessed or otherwise protected from damage with all components easily accessible for servicing;
- (c) All trailer lights **must** be LED.

3.12.2 **Amber Coloured Beacon**

- (a) A switched, amber-coloured, omni-directional beacon that operates continuously when the towing vehicle is running **must** be provided;
- (b) The beacon **must** be mounted so as to provide maximum vehicle visibility; and
- (c) The beacon **must** be LED.

3.13 **Lubricants and Hydraulic Fluids**

- (a) The trailer **must** operate using synthetic non-proprietary lubricants; and
- (b) Grease fittings on the trailer **must** conform to SAE J534.

3.14 **Paint** - The trailer **must** be painted using the manufacturer's standard commercial painting system and in the manufacturers standard commercial colours.

3.15 **Identification**

- (a) The equipment information **must** be permanently marked in a conspicuous and protected location;
- (b) The information **must** include the manufacturer's name, and model;
- (c) GAWR and GVWR ratings **must** be provided; and
- (d) The maximum payload capacity **must** be provided on the identification plate.

3.16 **Trailer Delivery Condition**

- (a) The trailer **must** be delivered to destination in a fully operational condition (serviced and adjusted);
- (b) The trailer **must** be cleaned;

- (c) For shipment verification, items such as wheel wrenches, jacks, and all other tools, equipment and accessories, that are shipped loose, **must** be listed on the shipping certificate or to an attached packing note; and
- (d) Lubricant viscosity provided **must** be in accordance with the manufacturer's specifications for the destination and the season of delivery.

**4. Integrated Logistic Support**

**4.1 Contractor Documentation and Logistic Items**

**4.1.1 Items Supplied to Technical Authority**

**(a) Manuals for Approval**

- i The Contractor **must** supply a set of manuals for each Configuration/model, in digital format, including the operator, parts and maintenance (shop repair) manuals. Manuals may cover more than one (1) configuration/model;
- ii The set of manuals **must** include manuals for all the specified accessories and features for the configuration/model. Accessory manuals may be included as supplements to the vehicle/equipment manuals;
- iii Digital copies **must** be functional without the requirement for a password, an auto-run installation procedure or an Internet connection;
- iv Digital copies **must** be supplied on a CD or DVD;
- v Digital copies **must** be supplied in a searchable PDF format;
- vi The CD or DVD **must** be provided with a printed label showing the contract and equipment information;
- vii Manuals will not be returned;
- viii Manual approval, request for additional documentation or request for amendments will be supplied within 15 working days of receipt
- ix The Contractor **must** supply the additional documentation or implement the changes as requested by the **Technical Authority**; and
- x Paper copies of manuals delivered under this contract **must** have the same content as the electronic format approved by the **Technical Authority**.

**(b) Photographs and Line Drawings**

- i The Contractor **must** supply two (2) digital colour photographs, one (1) left-front three-quarter view, and one (1) right-rear three-quarter view of each configuration/model;
- ii One (1) digital colour photograph of each attachment taken at the three-quarter view that best illustrates the attachment **must** be supplied;
- iii One (1) front-view and one (1) side-view line drawing showing dimensions of the vehicle/equipment **must** be supplied. Brochure line drawings are acceptable;

- iv Photographs **must** have a plain background;
  - v Photographs **must** be in a JPEG (Joint Photographic Experts Group) format; and
  - vi Photographs **must** have a resolution of at least eight (8) Mega pixels.
- (c) **Data Summary**
- i The Contractor **must** supply a bilingual data summary for each configuration/model, with vehicle/equipment data (including accessories and features) and a vehicle/equipment picture;
  - ii The **Technical Authority** will supply a bilingual template of a data summary to the Contractor;
  - iii The Contractor **must** supply a digital copy (MS Word) of the completed data summary for approval;
  - iv Data summary approval or request for amendments will be supplied within 15 working days of receipt; and
  - v The Contractor **must** implement the changes requested by the **Technical Authority**.
- (d) **Safety Data Sheets**
- i The Contractor **must** supply a listing, in digital format, of all hazardous materials used on the vehicle/equipment;
  - ii If there are no hazardous materials used, this **must** be stated on the listing; and
  - iii The Contractor **must** supply safety data sheets for all hazardous materials in the list.
- (e) **Warranty Letter**
- i The **Technical Authority** will supply a bilingual warranty letter template to the Contractor;
  - ii The Contractor **must** supply a complete description of the warranty with the requested warranty terms and any system or sub system warranty that exceeds the minimum requested;
  - iii The warranty letter **must** include the name and contact information of the closest designated warranty provider and other designated warranty providers across Canada; and
  - iv The contractor **must** supply the original warranty letter in digital format, for each vehicle/equipment delivered, to the **Technical Authority**.

4.1.2 **Items Supplied with Each Vehicle/Equipment**

- (a) **Operator's Manuals** - The Contractor **must** supply an approved bilingual operator's manual in both paper and digital PDF format with each vehicle/equipment delivered;
- (b) **Warranty Letter** - The Contractor **must** supply a copy of the warranty letter with each vehicle/equipment delivered;
- (c) **Safety Data Sheets**

- i The Contractor **must** supply a set of material safety data sheets; and
  - ii The material safety data sheets **must** be the same as those provided to the **Technical Authority** as per paragraph 4.1.1 (d);
- (d) **Paper Maintenance Manual - English**
- i The Contractor **must** supply the approved maintenance (shop repair) manuals in paper format and in English required for the maintenance and repair of the vehicle/equipment, features and accessories; and
  - ii The contractor may supply this deliverable as a bilingual package;
- (e) **Paper Maintenance Manual - French**
- i The Contractor **must** supply the approved maintenance (shop repair) manuals in paper format and in French required for the maintenance and repair of the vehicle/equipment, features and accessories; and
  - ii The contractor may supply this deliverable as a bilingual package;
- (f) **Digital Maintenance Manual - English**
- i The Contractor **must** supply the approved, searchable PDF digital maintenance (shop repair) manuals in English required for maintenance and repair of the vehicle/equipment features and accessories;
  - ii Digital copies **must** be supplied on a CD or DVD; and
  - iii The contractor may supply this deliverable as a bilingual package;
- (g) **Digital Maintenance Manual - French**
- i The Contractor **must** supply the approved, searchable PDF digital maintenance (shop repair) manuals in French required for maintenance and repair of the vehicle/equipment features and accessories;
  - ii Digital copies **must** be supplied on a CD or DVD; and
  - iii The contractor may supply this deliverable as a bilingual package.
- (h) **Paper Parts Manual**
- i The Contractor **must** supply the approved parts manuals for the vehicle/equipment, features and accessories in paper format;
  - ii The parts manual **must** be supplied in English; and
  - iii It is desirable to supply the parts manual in French in addition to the English version.
- (i) **Digital Parts Manual**
- i The Contractor **must** supply the **Technical Authority** approved parts manuals in searchable PDF format and in English for the vehicle/equipment, features and accessories;



- ii Digital copies **must** be supplied on a CD or DVD; and
- iii It is desirable to supply the digital parts manual in French in addition to the English version.

4.2

**Training**

(a) **Training - Familiarization**

- i The Contractor **must** supply a familiarization course at each delivery destination, optimized for operators and technicians who are qualified on the vehicle type but require training on newer or unique features and sub-systems of the delivered model;
- ii The course **must** be delivered in the official language (English or French) specified in the contract for that delivery destination; and
- iii The instructor **must** be an OEM Factory Certified Training Provider.
- iv **Curriculum**
  1. The familiarization course **must** include operation and maintenance segments;
  2. The operation segment **must** include safety precautions to be observed while operating and servicing the vehicle, vehicle operating characteristics, pre-operating and shutdown procedures and daily/weekly operator servicing procedures;
  3. The operation segment **must** include sub-systems including automatic grease system and pre-heaters; and
  4. The maintenance segment **must** include diagnostics, trouble shooting and operation of any special tools and test equipment (if any).
- v The familiarization course **must** have a minimum duration of eight (8) hours, divided into four (4) hours for operators and four (4) hours for technicians;
- vi The familiarization course **must** accommodate up to eight (8) personnel; four (4) operators and four (4) technicians;
- vii The date for the familiarization course **must** be arranged with the **Technical Authority**;
- viii After completion of the familiarization course, the Contractor **must** have the "PROOF OF FAMILIARIZATION" certificate signed by the senior course attendee; and
- ix The **Technical Authority** will supply the "PROOF OF FAMILIARIZATION" document template in a digital format.